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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

TS 8576 PCT International application No.				FOR FURTHER ACT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
				International filing date (da 18.07.2003	ay/mont	h/year)	Priority date (day/month/year) 19.07.2002		
	ational 011/4		t Classification (IPC) o	l r both national classification an	d IPC		·		
opplic SHE	ant LL IN	TER	NATIONALE RESI	EARCH MAATSCHAPPI	J B.V.				
1.	This i	ntern ority a	ational preliminary e nd is transmitted to t	xamination report has been he applicant according to A	prepa	red by this Inte 36.	ernational Preliminary Examining		
2.	This	REPO	ORT consists of a tot	al of 5 sheets, including thi	s cove	r sheet.			
		1	amandad and are t	panied by ANNEXES, i.e. s ne basis for this report and/ tion 607 of the Administrativ	or snee	eis containing i	ion, claims and/or drawings which have rectifications made before this Authority the PCT).		
	Thes		exes consist of a tot						
	_						o		
3.	This report contains indications relating to the following items:								
	ŀ	\boxtimes	Basis of the opinion	n					
	11		Priority				and industrial applicability		
	Ш		Non-establishment	of opinion with regard to no	ovelty,	inventive step	and industrial applicability		
	IV		Lack of unity of inv	ention			inventive etch or industrial applicability		
	V	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	VI	• • •							
	VII Certain defects in the international application								
	VIII		Certain observatio	ns on the international appl	ication				
Date	of cut	missi	on of the demand		Date	of completion of	this report		
	02.20				08.1	1.2004			
Nam preli	ne and minary	exam	g address of the internining authority:		Autho	orized Officer			
J. C.	3)	· Et	ropean Patent Office -	P.B. 5818 Patentlaan 2 ays Bas x: 31 651 epo nl	Mou	igey, M			

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International application No.

PCT/EP 03/07863

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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages						
	1-11		as originally filed					
	Clai	ms, Numbers						
	1-11		as originally filed					
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	These elements were available or furnished to this Authority in the following language: , which is:							
			nslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publi	cation of the international application (under Rule 48.3(b)).					
		the language of a training the language of a tra	nslation furnished for the purposes of international preliminary examination (under					
3.	With inte	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
		contained in the inter	rnational application in written form.					
		filed together with the	e international application in computer readable form.					
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosing the international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4	. The	e amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5	i. 🗆	This report has been been considered to	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement s	heet containing such amendments must be referred to under item 1 and annexed to this					
6	s. Ad	ditional observations,	if necessary:					

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
 citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-11

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-11

Industrial applicability (IA) Yes: Claims 1-11

No: Claims

2. Citations and explanations

see separate sheet

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- Re Item V
 - Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or
- industrial applicability; citations and explanations supporting such statement

1. Independent claim 1

1.1 The document 'High modulation burner for liquid fuels based on porous media combustion and cool flame vaporization', 'TRIMIS AND ALL', 'SIXTH INTERNATIONAL CONFERENCE ON TECHNOLOGIES AND COMBUSTION FOR A CLEAN ENVIRONMENT', 'Porto, Portugal', 2, paper 23.1//09-07-2001,-,12-07-2001 will be referred to hereafter as D1 and is is considered as the closest prior art with regard to the subject-matter of claim 1.

D1 discloses a process for the combustion of an Industrial Gas Oil (see page 1, column 2, line 54 to page 2, column 1, line 2) including the following steps:

- obtaining a mixture of liquid hydrocarbon droplets in an oxygen containing gaseous phase (see page 2, column 1, lines 2-3),
- evaporating the liquid hydrocarbon droplets to obtain a gaseous mixture comprising oxygen and hydrocarbon (see page 2, column 1, lines 3-6),
- burning the totality of the mixture obtained in the previous step (see page 2, column 1, lines 16-24).
- 1.2 The subject-matter of claim 1 differs from the teachings of D1 in the use of a specific type of Industrial Gas Oil: Fischer-Tropsch derived hydrocarbon fuels. However, the fact of selecting the most appropriate type fuel for a given combustion system falls within the scope of a the normal engineer design activity and can only involve an inventive step when the choice of such a fuel leads to unexpected effects or properties.

The properties of Fischer-Tropsch derived fuel to reduce emissions and deposits which are mentioned in the application are well known (see for example US-A1-6056793, column 6, lines 51-54 and DE-A1-19517537 page 2, lines 22-37) and can therefore not be considered as surprising effects.

1.3 The subject-matter of independent claim 1 can therefore not be considered as involving an inventive step in the sense of Article 33(3) PCT.

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INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

2. dependent claims

The additional features of dependent claims 2-11 are already known:

- for claim 2, see D1, page 2. column 1, lines 2-6,
- for claim 3, see D1, page 2, column 1, lines 16-47,
- for claim 4, see D1, page 2, column 2, lines 6-8,
- for claim 5, see DE-U1-20110553, page 1, paragraph 1 to page 2, paragraph 1,
- for claim 6, see D1, column 2, lines 6-8,
- for claim 7, see EP-A1-949452, column 1, paragraph 1,
- for claim 8, see EP-A2-947769, paragraphs 16,17,
- for claim 9, see US-A1-6056793, column 3, lines 33-45,
- for claim 10, see US-A1-6056793, column 5, line 66 to column 6, line 19,
- for claim 11, see US-A1-5295818, column 3, lines 27-29 and column 5, lines 49-64.